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动物分类学报

广厉螨属和裸厉螨属二新种及伊犁血厉螨特征补充 (蜱螨亚纲, 中气门目, 厉螨科)

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摘 要 记述厉螨科 Laelapidae 2 新种: 似李广厉螨 *Cosmoladaps lisimilis* sp. nov. 和广西裸厉螨 *Gymnolaelaps guangxiensis* sp. nov.。同时补充伊犁血厉螨 *Haemoladaps yiliensis* Ye *et* Ma, 1996 特征。
关键词 厉螨科, 广厉螨属, 裸厉螨属, 血厉螨属, 新种.
中图分类号 Q959.226

中国已记载广厉螨属 *Cosmoladaps* Berlese 22 种, 裸厉螨属 *Gymnoladaps* Berlese 5 种。本文记述广厉螨属 1 新种和裸厉螨属 1 新种, 并补充伊犁血厉螨 *Haemoladaps yiliensis* Ye *et* Ma, 1996 特征。模式标本为作者采。保存于军事医学科学院微生物流行病研究所昆虫标本馆, 北京。文中测量单位为 μm。

1 似李广厉螨, 新种 Cosmolaelaps lisimilis **sp. nov.** (图 1~ 6)

形态描述 雌螨体黄色, 椭圆形。背板卵圆形, 长 387, 宽 237, 具刚毛 39 对, D_5~ D_7 之间有 2 根附加毛, 背板毛均呈叶状, F_1 较宽, F_2 和 M_{11} 很短, 其余毛内缘有 1~ 2 细突。背表皮毛 14 对左右, 前部者短小针状, 后部者短小叶状。腹面板骨化很弱, 胸板前及后缘看不清, 胸毛 3 对, 隙孔 2 对。胸后毛和第 3 对隙孔在表皮上。生殖腹板后部稍膨大, 呈椭圆形, 后端达到 Vl_3 水平, 板上刚毛 1 对。肛板明显, 长 75, 宽 65, 宽梨形。Ad 位于肛孔中横线水平, Ad 与 PA 约等于肛孔长。气门沟前端达到 F_2 外侧。螯钳动趾 2 齿, 定趾 6 齿。颚角短。颚毛中等长, 光滑。足毛刺状和针状, 光滑。

雄螨 未采到。

词源: 种名来源于“*Cosmolaelaps liae*” (相似种名) 和“-*similis*” (相似)。

鉴别特征 新种与李氏广厉螨 *Cosmolaelaps liae* Bai *et* Gu, 1993 极相近似, 但新种背板毛内缘有细突, F_2 短叶状, 生殖腹板后部椭圆形, 肛板宽梨形; 而李氏广厉螨背板毛无细突, F_2 短刺状, 生殖腹板后部方形, 肛板狭梨形。

正模 ♀, 采自土壤, 海南海口 (20°N, 110°20′E), 2004-04-05。副模 1♀, 采自土壤, 广西桂林 (25°15′N, 110°17′E), 2006-10-14。

2 广西裸厉螨, 新种 Gymnolaelaps guangxiensis **sp. nov.** (图 7~ 11)

形态描述 雌螨体黄色, 狭长椭圆形, 长 624, 宽 323。背板覆盖整个背面, 具鳞状网纹, 刚毛 39 对, D_7~ D_8 之间有 1 根附加毛, 背毛均短小光滑, 末端达不到与下位毛基部距离的中点。胸前板 1 对, 螯形。胸板长 151, 最狭处宽 108, 胸毛 3 对, 隙孔 2 对。胸后毛和第 3 对隙孔位于足内板内侧表皮上。生殖腹板长 215, 最宽处宽 129, 后部呈圆形膨大, 后端达到 Vl_3 水平, 板上刚毛 1 对。肛板圆三角形, 长 97, 宽 108, Ad 位于肛孔中横线水平, Ad 与 PA 约等于肛孔长。足后板 1 对, 椭圆形。气门沟前端达到基节Ⅰ中部。足外板在基节Ⅳ后稍凸。腹表皮毛约 9 对。螯钳动趾 2 齿, 定趾看到 3 齿。颚角短。颚毛中等长, 光滑。足有刺状毛和针状毛, 光滑。

雄螨 未采到。

词源: 种名来源于模式标本采集地。

鉴别特征 新种类似于光滑裸厉螨 *Gymnolaelaps laevis* (Michael, 1891), 但新种体狭长; 生殖腹板后端达到 Vl_3 水平, 板上刚毛 1 对; 肛板较宽, 三角形; 足后板 1 对, 较大。而光滑裸厉螨体宽短; 生殖腹板后端达到 Vl_4 水平, 板上刚毛 2 对; 肛板较狭, 卵圆形; 足后板 2 对, 很小。

正模 ♀, 采自土壤, 广西南宁 (22°54′N, 108°20′E), 2004-08-06。副模 1♀, 采自土壤, 广西桂林 (25°15′N, 110°17′E), 2006-10-14。

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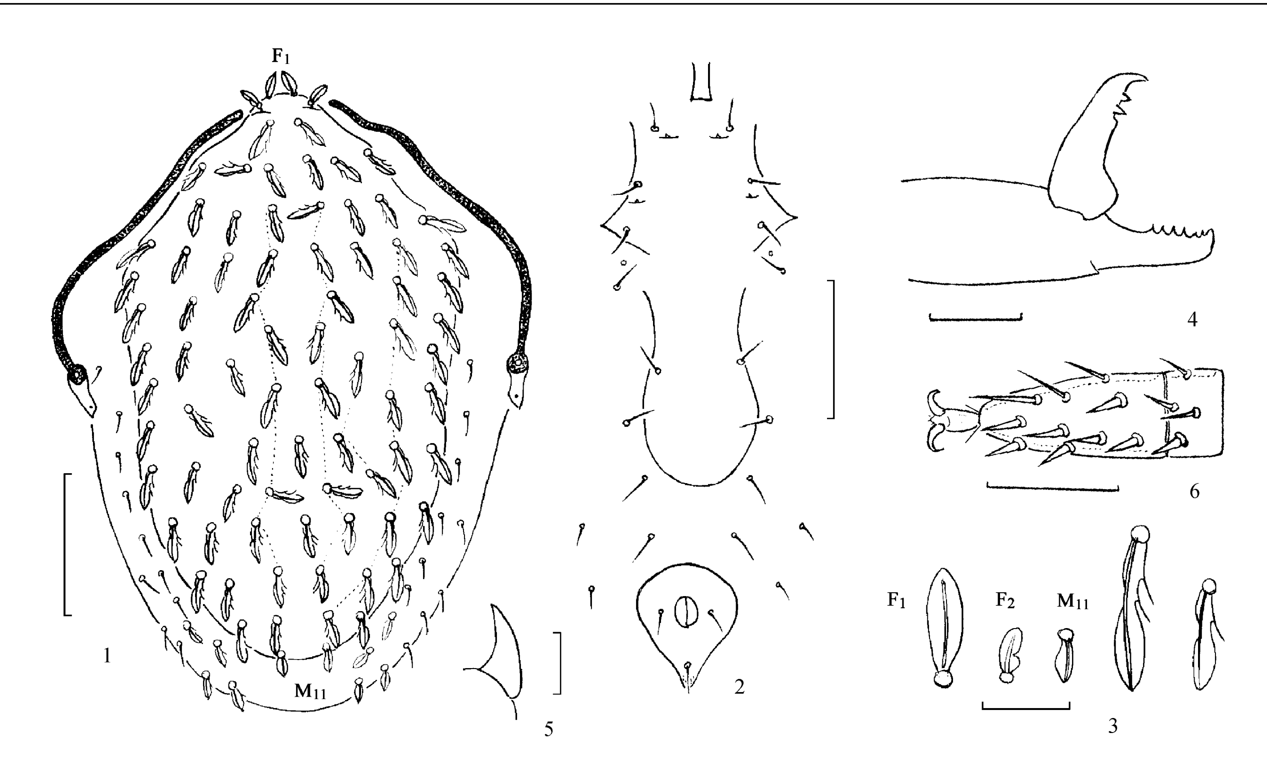


图 1~ 6　似李广厉螨，新种 *Cosmoladaps lisimilis* sp. nov. ♀
1. 背面 (dorsum)　2. 腹面 (venter)　3. 背板毛 (setae of dorsal shield)　4. 螯钳 (chela)　5. 颚角 (corniculus)
6. 跗节 II (tarsus II) 比例尺 (scale bars): 1~ 2= 100μm; 3~ 5= 20μm; 6= 40μm

图 7~ 11　广西裸厉螨，新种 *Gymnoladaps guangxiensis* sp. nov. ♀
7. 背面 (dorsum)　8. 腹面 (venter)　9. 螯钳 (chela)　10. 颚角 (corniculus)　11. 跗节 II (tarsus II)　比例尺 (scale bars): 7~ 8= 100μm; 9, 11= 50μm; 10= 20μm

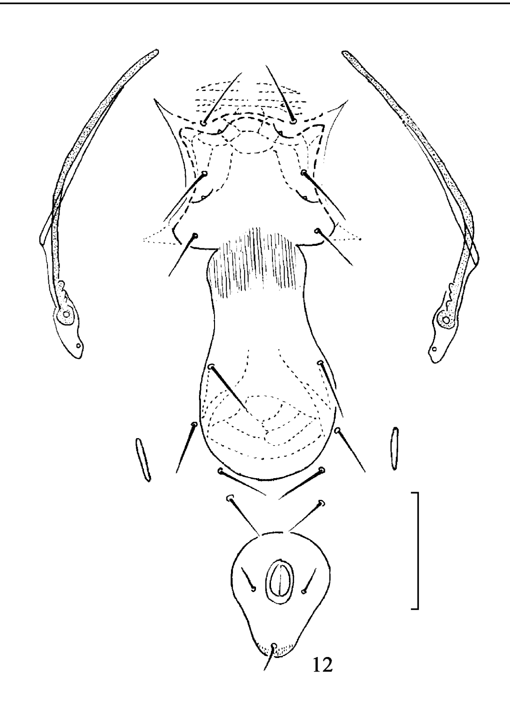


图 12 伊犁血厉螨 *Haemolaelaps yiliensis* Ye *et* Ma, 1996 ♀ 腹面各板 (shields of venter) 比例尺 (scale bar) = 100 μm

3 伊犁血厉螨 Haemolaelaps yiliensis **Ye** et **Ma, 1996** (图 12)

叶瑞玉, 马立名: 动物分类学报, 21 (3): 296.

特征补充 正模♀, 腹面各板如图 12。胸板边缘骨化很弱, 前缘与板上网纹及胸前区网纹分不清, 侧缘形成淡色带, 亚侧缘线以内骨化较强, 后侧角短钝 (原描述图中的胸板后侧角实际是表皮上的线纹)。板上 2 对隙孔形状相同, 均细长, 弧形。气门板在气门后的后延部分宽短。颚毛光滑, 外颚毛细短。

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DESCRIPTIONS OF TWO NEW SPECIES OF THE GENERA COSMOLAELAPS AND GYMNOLAELAPS, WITH SUPPLEMENTARY CHARACTERS OF HAEMOLAELAPS YILIENSIS YE ET MA (ACARI, MESOSTIGMATA, LAELAPIDAE)

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Abstract The present paper reports two new species of the family Laelapidae and provides supplementary characters of *Haemolaelaps yiliensis* Ye *et* Ma, 1996. Type specimens are deposited in the Entomology Gallery, Institute of Microbiology and Epidemiology, Academy of Military Medical Sciences, Beijing.

1 Cosmolaelaps lisimilis **sp. nov.** (Figs. 1-6)

♀. Dorsal shield 387 μm long and 237 μm wide, bearing 39 pairs and 2 unpaired leaf-like setae, F_1 broader, F_2 and M_{11} short, remaining setae with 2 thin silks. Sternal shield weakly sclerotized, with 3 pairs of setae and 2 pairs of pores. MSt and the 3rd pair of pores on cuticle behind the shield. Genito-ventral shield expanded posteriorly, reaching to level of Vl_3, with 1 pair of setae. Anal shield pear-shaped, Ad situated at level of middle of anus, both Ad and PA subequal to anus in length. Peritreme reaching out to F_2 anteriorly. Movable digit of chela bidentate, fixed digit with 6 denticles. Legs setae spine- or needle-shaped.

♂ Unknown.

The new species is very similar to *Cosmolaelaps* liae Bai *et* Gu, 1993, but differs in the dorsal shield setae with thin silks, F_2 short leaf-like, posterior part of genito-ventral shield oval, anal shield broad pear-like (in the latter species dorsal shield setae without thin silk, F_2 short spine-like, posterior part of genito-ventral shield square, anal shield narrow pear-like).

Holotype ♀, *ex* soil, from Haikou (20°N, 110°20′E), Hainan Province, in 5 Apr. 2004. Paratype 1♀, *ex* soil, from Guilin (25°15′N, 110°17′E), Guangxi Zhuang Autonomous Region, 14 Oct. 2006.

2 Gymnolaelaps guangxiensis **sp. nov.** (Figs. 7-11)

♀. Length 624 μm, width 323 μm. Dorsal shield covering entire dorsum, with 39 pairs and 1 unpaired short simple setae. Presternal shields 1 pair, chelar-shaped. Sternal shield with 3 pairs of setae and 2 pairs of pores. MSt and the 3rd pair of pores on cuticle interior to endopodal shields. Genito-ventral shield expanded posteriorly, reaching to level of Vl_3, with 1 pair of setae. Anal shield triangular, Ad situated at level of middle of anus, both Ad and PA subequal to anus in length. Metapodal shields 1 pair, oval. Peritreme reaching to middle of coxa Ⅰ anteriorly. Exopodal shields slightly convex behind coxae Ⅳ. Movable digit of chela

bidentate, fixed digit tridentate. Legs setae spine- or needle-shaped.

♂Unknown.

The new species is similar to *Gymnolaelaps laevis* (Michael, 1891), but in the new species the idiosoma long and narrow; genito-ventral shield reaching to level of Ⅶ3 posteriorly, with 1 pair of setae; anal shield broader, triangular; metapodal shields 1 pair, large. In the latter species idiosoma short and broad; genito-ventral shield reaching to level of Ⅶ4 posteriorly, with 2 pairs of setae; anal shield narrower, oval; metapodal shields 2 pairs, small.

Holotype ♀, *ex* soil, from Nanning (22°54′N, 108°20′E), Guangxi Zhuang Autonomous Region, in 6 Aug. 2004. Paratype 1 ♀, *ex* soil, from Guilin (25°15′N, 110°17′E), Guangxi Zhuang Autonomous Region, 14 Oct. 2006.

3 Haemolaelaps yiliensis **Ye** et **Ma, 1996** (Fig. 12)

♀. Margins of sternal shield weakly sclerotized, lateral margins with white band; postero-lateral angles blunt; both pairs of lyrifissure on the shield long and thin, arc-shaped.

Key words Laelapidae, *Cosmolaelaps*, *Gymnolaelaps*, *Haemolaelaps*, new species.